Alexander Zheng

Canadian Citizen

BSc. Computer Science, Year 4

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**Technical Skills**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **LANGUAGES** | | **FRAMEWORKS/TOOLS** | | | **OTHER TOOLS** | | |
| • | C/C++ | | • | Node.JS | | • | Git/Github |
| • | Javascript/HTML/CSS | | • | Express | | • | Bash Scripting |
| • | Python | | • | JIRA/Bitbucket | | • | Jenkins |
| • | Typescript | | • | GraphQL | | • | MongoDB |
| * • | Java | | • | React | | • | Wireshark |

**Work Experience**

**Core OS Software Developer | Blackberry (CO-OP) | Jan 2019 – May 2019**

* Worked on the RTOS QNX kernel, hypervisor, memory management, process management, and OS services
* Migrated a large portion of the code base from using the compiler GCC-6 to GCC-8
* Created a script in C that automatically detects instances of spectre sensitive code
* Implemented and tested changes to memory allocator’s arena data structure for 10% improved performance
* Ensure ISO 26262 safety requirements are met by practicing coding standards and getting test coverage

**Software Developer | Appneta (CO-OP) | Sept – Dec 2018**

* Enhance the system and network configuration software of a Linux based network appliance
* Design and implement customer-facing network level features and the Appneta API using C++ and Python
* Created an automated testing framework for network appliances using Tornado web framework with stats
* Find, debug, and fix low-level system errors in C++ using GDB, including a very high priority bug affecting customers

**Personal Projects**

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| **Online tutoring web app – Javascript (Personal Project)** | **JUN 2020** |

* Created an online tutoring website that allows for one on one video calling sessions
* Used MERN stack and WebRTC for the video calling, as well as GraphQL for the backend

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| **Course Information Parser – Typescript (Coursework)** | **DEC 2017** |

* Parses university data from API and lets users query it using frontend
* Wrote unit and integration white box tests with the Mocha/Chai testing suite

**Education**

**MAJOR IN COMPUTER SCIENCE | UBC 2016 – PRESENT**

* A+ Average
* Relevant Courses: Software Engineering, Operating Systems, Database Design, Machine Learning